

CLAIMS

1. A mobile phone for receiving a video signal and displaying video on a screen, comprising:

5 an acquiring unit operable to acquire incoming signal information related to an incoming signal or detection information related to detection of a prescribed operation by a user;

10 a generating unit operable to generate display information related to mobile communication; and

15 a display unit operable to display the display information on the screen along with the video being displayed, if the incoming signal information or the detection information is acquired.

20 2. The mobile phone of claim 1, wherein

the incoming signal information includes ID information identifying an originator, and

the generating unit generates the display information based on the ID information.

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3. The mobile phone of claim 2, wherein

the screen is composed of a first display area and a second display area, and

the display unit stores ratio information showing an area ratio between the first display area and the second display area, generates downscaled video by downscaling the video relative to a size being displayed on the screen based on the ratio information, and displays the downscaled video

in the first display area and the ID information in the second display area.

4. The mobile phone of claim 2, wherein
5 the display unit displays the ID information to overlap the video.

5. The mobile phone of claim 2, wherein
10 the mobile phone further receives an audio signal corresponding to the video signal, and outputs audio, and the mobile phone further comprises:

a volume adjusting unit operable to adjust a volume of the audio output on acquiring the incoming signal information; and

15 an audio output unit operable to output or mute the audio based on the adjusted volume.

6. The mobile phone of claim 1, wherein
20 the acquiring unit acquires the detection information by detecting a prescribed operation by the user during video display in a standard video display orientation, and

25 the display unit generates downscaled/rotated video by downscaling and rotating the video 90 degrees from the standard video display orientation and displays the display information on the screen alongside the downscaled/rotated video, if information related to the operation by the user is acquired.

7. The mobile phone of claim 6, wherein
the screen is composed of a first display area and
a second display area, and

5 the display unit stores ratio information showing
an area ratio between the first display area and the second
display area, generates the downscaled/rotated video based
on the ratio information, and displays the
downscaled/rotated video in the first display area and the
10 display information in the second display area.

8. The mobile phone of claim 7, wherein
the display unit, on receipt of ratio information
different from the stored ratio information, upscales or
15 further downscales the downscaled/rotated video based on the
received ratio information instead of displaying the display
information alongside the downscaled/rotated video, and
displays the display information alongside the
downscaled/rotated video after upscaling or further
20 downscaling.

9. The mobile phone of claim 6 further comprising:
an operation instruction receiving unit operable
to receive an operation instruction from the user;
25 a switching instruction receiving unit operable to
receive a switching instruction to switch an operation target
from the user during display of the downscaled/rotated video
and the display information; and

an operation switching unit operable, on receipt of the switching instruction, to switch the target of an operation based on the operation instruction, from a first function relating to display of the downscaled/rotated video 5 to a second function relating to the display information, or from the second function to the first function.

10. The mobile phone of claim 9, wherein
the operation switching unit stores output
10 destination information showing one of the first function and the second function as the target of the operation based on the operation instruction, and rewrites the output destination information on receipt of the switching information, from information showing the first function to
15 information showing the second function, or from information showing the second function to information showing the first function, and

the operation instruction receiving unit outputs
the operation instruction to one of the first function and
20 the second function, according to information shown by the output destination information.

11. The mobile phone of claim 6, wherein
the mobile phone further receives an audio signal
25 corresponding to the video signal, and outputs audio, and
the mobile phone further comprises:

an operating instruction receiving unit operable
to receive an operating instruction relating to the mobile

phone;

a volume adjusting unit operable to adjust the volume of the audio output on receipt of the operating instruction; and

5 an audio output unit operable to output or mute the audio based on the adjusted volume.

12. The mobile phone of claim 1 further comprising:
two speakers disposed one on either side of the
10 screen; and

an audio output unit operable to play audio included in a television broadcast signal in stereo using the two speakers when the two speakers are positioned laterally relative to the video, and in monaural using the
15 two speakers when the two speakers are positioned vertically relative to the video.

13. A display method used by a mobile phone that receives a video signal and displays video on a screen, and
20 includes an acquiring unit, a generating unit and a display unit, comprising the steps of:

using the acquiring unit to acquire incoming signal information related to an incoming signal or detection information related to detection of a prescribed operation
25 by a user;

using the generating unit to generate display information related to mobile communication; and

using the display unit to display the display

information on the screen along with the video being displayed, if the incoming signal information or the detection information is acquired.

5 14. The display method of claim 13, wherein
 the incoming signal information includes ID
information identifying an originator, and
 the generating step generates the display
information based on the ID information.

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15 15. The display method of claim 13, wherein
 the acquiring step uses the acquiring unit to
acquire the detection information by detecting a prescribed
operation by the user during video display in a standard video
display orientation, and
 the display step uses the display unit to generate
downscaled/rotated video by downscaling and rotating the
video 90 degrees from the standard video display orientation
and display the display information on the screen alongside
20 the downscaled/rotated video, if information related to the
operation by the user is acquired.

25 16. The display method of claim 13, wherein
 the mobile phone further includes two speakers
disposed one on either side of the screen, and an audio output
unit, and
 the display method further comprises the step of:
 using the audio output unit to play audio included

in a television broadcast signal in stereo using the two speakers when the two speakers are positioned laterally relative to the video, and in monaural using the two speakers when the two speakers are positioned vertically relative to
5 the video.

17. A computer program applied in a mobile phone that receives a video signal and displays video on a screen, and includes an acquiring unit, a generating unit and a display
10 unit, the computer program causing a computer to execute the steps of:

using the acquiring unit to acquire incoming signal information related to an incoming signal or detection information related to detection of a prescribed operation
15 by a user;

using the generating unit to generate display information related to mobile communication; and

using the display unit to display the display information on the screen along with the video being
20 displayed, if the incoming signal information or the detection information is acquired.

18. The computer program of claim 17, wherein
the incoming signal information includes ID
25 information identifying an originator, and
the generating step generates the display information based on the ID information.

19. The computer program of claim 17, wherein
the acquiring step uses the acquiring unit to
acquire the detection information by detecting a prescribed
operation by the user during video display in a standard video
5 display orientation, and

the display step uses the display unit to generate
downscaled/rotated video by downscaling and rotating the
video 90 degrees from the standard video display orientation
and display the display information on the screen alongside
10 the downscaled/rotated video, if information related to the
operation by the user is acquired.

20. The computer program of claim 17, wherein
the mobile phone further includes two speakers
15 disposed one on either side of the screen, and an audio output
unit, and

the computer program further causes the computer
to execute the step of:

using the audio output unit to play audio included
20 in a television broadcast signal in stereo using the two
speakers when the two speakers are positioned laterally
relative to the video, and in monaural using the two speakers
when the two speakers are positioned vertically relative to
the video.